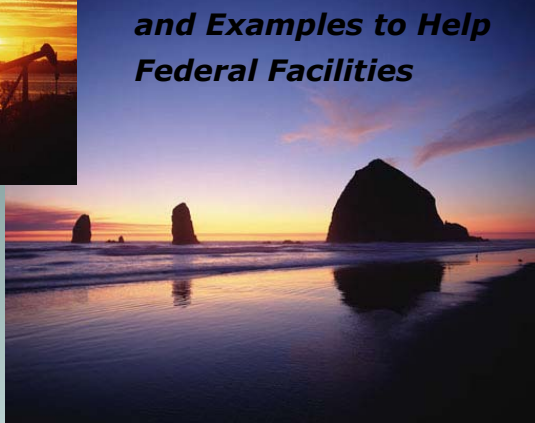


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Environmental Purchasing:

***Why We Do It and Tools
and Examples to Help
Federal Facilities***



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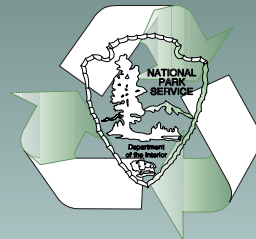


➤ *NPS Mission Statement:*

*"..to preserve and protect the
natural and cultural resources
for future generations..."*

➤ *NPS Environmental Leadership*

- *Conduct business in an
environmental responsible manner.*
- *Set an example.*



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- Section 6002 RCRA (1976).
 - Congress directs federal purchasing for recovered materials, and,
 - Environmentally sound waste systems.
- EO 13101 (1998): Waste Prevention, Recycling, and Federal Acquisition.
 - Compliance with recycling and recycled content purchasing requirements.
 - Adds other environmental attributes-EPP.

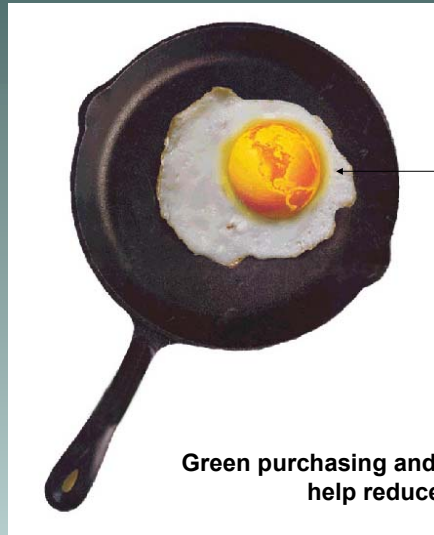
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- *Why is it **REALLY** important?*
 - By recycling/buying and building green...
 - We conserve...
 - foreign and domestic raw materials.
 - landfill space.
 - energy in securing, transporting, and manufacturing.
 - Create jobs, markets, and revenues.
 - Decrease greenhouse emissions.



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EARTH

Green purchasing and green buildings
help reduce GHG

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***"About 94% of the materials extracted for use
in manufacturing durable products become waste
before the product is manufactured...
80% of what we make is thrown away
within six months of production."***

**Paul Hawken
*Natural Capitalism***

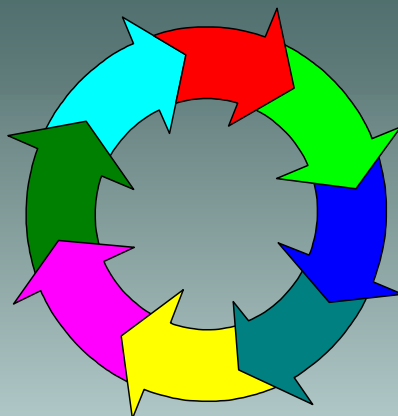
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➤ *EO 13101...*

- In developing plans and specifications,
 - Elimination of virgin material requirements,
 - Use of biobased products,
 - Use of recovered materials,
 - Reuse of product,
 - Life cycle cost,
 - Recyclability,
 - Use of environmentally preferable products,
 - Waste prevention (including toxicity reduction)
 - Ultimate disposal.

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Lifecycle Assessment
and Costs

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➤ *Environmentally Preferable Purchasing (EPP):*

Products or services that have a lesser effect on human health and the environment when compared with competing products. Considers raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, or disposal.

➤ **EPP = environment + price + performance!**

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➤ *Comprehensive Procurement Guideline (CPG):*

➤ RCRA requires EPA to designate products with recovered materials.

➤ 54 currently listed. Buy *unless*:

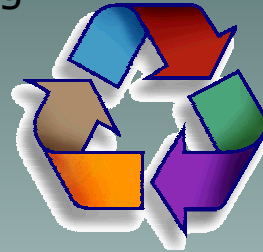
- a product is not available within a reasonable timeframe,
- does not meet performance standards,
- is an unreasonable price.



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- **CPG:** www.epa.gov/cpg
- Paper and Paper Products
- Vehicular Products
- Construction Products
- Landscaping Products
- Transportation Products
- Park and Recreation Products
- *Recovered Material Advisory Notices (RMAN)*




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- BUILDINGS use 40% raw materials worldwide.
- BUILDINGS consume 30-40% of our total energy and 60% of our electricity.
- 25% of the increase in CO₂ in the atmosphere is due to BUILDINGS.
- 35% of landfill space is BUILDING generated waste.



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Environmental Impact

- Energy consumption
- Transportation
- Habitat loss/watersheds
- Carbon emissions
- Waste-by products

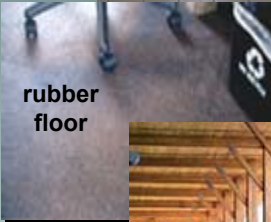
Select Materials

- Resource efficiency
- EPP/recycled content
- Minimize C&D
- Healthy indoors


Joshua Tree NP tiles




rubber floor



ceiling tiles



engineered wood



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CHOICES

- Plastic lumber vs CWP (FSC)
- Flooring-
linoleum vs vinyl
- Carpet - PET,
refurbished,
reclaimed backing,
no backing
- Paint
recycled content
vs no VOC, no odor



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North Cascades
sustainable design housing



Channel Islands
green boat

Zion sustainable
design VC



Fort Vancouver
plastic lumber

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➤ *NPS Environmental Purchasing Examples:*

- Channel Islands - green boat, 100% biodiesel.
 - Goal to become petroleum free park.
- Yellowstone - green janitorial products for park and hotel facilities; plastic lumber boardwalk.
- Many parks buying rerefined oil, biobased hydraulic fluids, greases, 2-stroke engine fuels, and alternative fuel vehicles.
- Park concessioners- hotels and food service leading by example. Yosemite Concessions.
- FSN/EPA paper initiative: Rolland New Life.



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➤ *Purchasing Green Products*

- Is it made from recycled content?
- Is it recyclable?
- Is it biobased/agricultural waste?
- Is it salvaged? Can it be reused?
- Is there a non-toxic substitute?
- Is it ozone friendly?
- Does it contribute to healthy indoor air?
- Is it locally produced?
- Does it have reduced packaging?
- Does it conserve water and energy? (Energy Star)



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Favorite Resources

- Environmental Building News and GreenSpec Binder
 - www.buildinggreen.com
- Alameda County
 - www.stopwaste.org
- EPA
 - www.epa.gov/cpg
 - www.energystar.gov
 - www.epa.gov/oppt/epp



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- *NPS-PWR Director's Strategy - Goals 2002*
- *Tools to Help Buy Green*

- PW-048 Directive:
 - Sustainable Design and Construction Practices.
- Revised CSI green guide spec:
 - 16 divisions (draft).
 - Waste construction plan to minimize C & D waste.



National Park Service Greening the Parks



March 12, 2002

PACIFIC WEST REGION DIRECTIVE: PW-051

SUBJECT: Environmentally Preferable Purchasing Policy

Therefore, in all efforts of park operations, the Pacific West Region will strive, to the maximum extent practical, to:

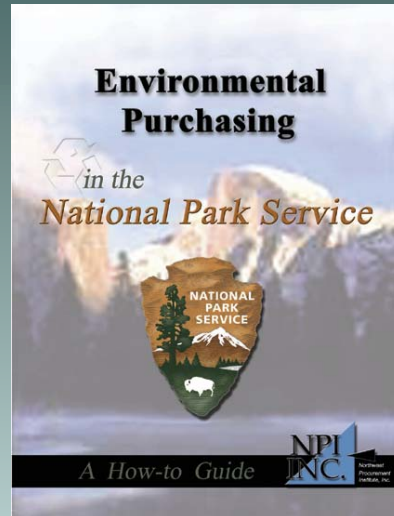
- Develop a program to prevent or reduce waste before products and services are acquired;
- Educate park employees on the opportunities to purchase EPA designated Comprehensive Procurement Guideline (CPG), biobased, and other environmentally preferable products and promote the opportunities where these products can be used;
- Purchase and use products and materials which are made from recycled or recovered content or which have other environmental attributes;
- Conduct acquisitions which incorporate environmental considerations into all aspects of planning, development of workplans and specifications, and contract administration;
- Conduct procedures for monitoring, reviewing, and reporting on each park's environmentally preferable purchasing program as outlined in the guideline Environmental Purchasing in the National Park Service: A How-To Guide, which will be distributed separately to each park.

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➤ *EP Guide*

- **Training**
 - bring COs and facility managers, designers together.



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➤ *NPS Environmental Purchasing Guide*

- Green contract language.
- Revised FAR requirements -
 - 48 CFR parts 2, 4, 7, 11, 13, and 52
 - Requirements Supporting Procurement of Recycled Products and EP Services.
- Affirmative Procurement Plan
 - CPG, EPP.
- Reporting requirements, certification, justification forms.



National Park Service Greening the Parks



➤ Best Management Practices Guide

Pacific West Region's 100+ Best Management Practices

Defining What a Green Park Looks Like

ACTIVITY	BEST MANAGEMENT PRACTICE	REFERENCE	SUCCESS	DATE
SUBJECT	ADVANCED	REFERENCE		
GREEN PROCUREMENT (GENERAL)				
Resource Guide on EO 12812	Review the guide Greening the Government Through Recycling, Waste Reduction, and Resource Acquisition for an available database of federal agencies and their commitment. Is it ready to use? Can it be easily located? Can it be downloaded? Are resources available to its production? Is it comprehensive? Can it be updated? Does it have simple maintenance? Is it recycled? Is it made from recycled paper? Is it 100% PC?	EO 12812: Greening the Government Through Waste Prevention, Recycling, and Resource Acquisition; 58B, The Resource Conservation and Recovery Act; 5205, Environmental Purchasing in the National Park Service; A How-to Guide (first due 5/01/02); NPS Green House Coordinator	PNW03: Environmentally Preferable Purchasing Policy	
Follow "You Make a Purchase, Ask"	Is the product produced and sold locally?	Adopt a list of preferred vendors for your park.		
CRP - Comprehensive Procurement Guidelines	Review the CRP categories. When making a purchase, check to see if recycled content is available. Use National Recommended Materials Advisory Notice for the % recycled content required.	On request required content as an environmental attribute. Other attributes may be more important such as no VOC paint for interior, or conflict with our public interface.	40 CRP 247 Comprehensive Procurement Guidelines for Products Containing Recycled Materials	
FAR	Review the FAR categories. When making a purchase, check to see if recycled content is available. Use National Recommended Materials Advisory Notice for the % recycled content required.	On request required content as an environmental attribute. Other attributes may be more important such as no VOC paint for interior, or conflict with our public interface.	40 CRP 247 Comprehensive Procurement Guidelines for Products Containing Recycled Materials	
Contract Language	Review the FAR categories. When making a purchase, check to see if recycled content is available. Use National Recommended Materials Advisory Notice for the % recycled content required.	On request required content as an environmental attribute. Other attributes may be more important such as no VOC paint for interior, or conflict with our public interface.	40 CRP 247 Comprehensive Procurement Guidelines for Products Containing Recycled Materials	
Printer Purchasing (CPC/low)	100% PC content for printing and writing paper (mandatory).	100% PC content for printing and writing paper (mandatory).	100% PC content for printing and writing paper (mandatory).	
Recycling (Recycling center then Refuse)	Recycle products with excessive or wasteful packaging to the recycling center of your community (PC required content) or a local recycling center. Recycle all other products and materials. Recycle all other products and materials. Recycle all other products and materials.	Recycle products with excessive or wasteful packaging to the recycling center of your community (PC required content) or a local recycling center. Recycle all other products and materials. Recycle all other products and materials. Recycle all other products and materials.	Recycle products with excessive or wasteful packaging to the recycling center of your community (PC required content) or a local recycling center. Recycle all other products and materials. Recycle all other products and materials. Recycle all other products and materials.	
Computers and FAX/Printers	Consider the energy the unit. Purchase refurbished or recycled. Consider the energy the unit. Purchase refurbished or recycled. Consider the energy the unit. Purchase refurbished or recycled.	Consider the energy the unit. Purchase refurbished or recycled. Consider the energy the unit. Purchase refurbished or recycled. Consider the energy the unit. Purchase refurbished or recycled.	Consider the energy the unit. Purchase refurbished or recycled. Consider the energy the unit. Purchase refurbished or recycled. Consider the energy the unit. Purchase refurbished or recycled.	
Substance & Design Specifications	Review the FAR categories. When making a purchase, check to see if recycled content is available. Use National Recommended Materials Advisory Notice for the % recycled content required.	Review the FAR categories. When making a purchase, check to see if recycled content is available. Use National Recommended Materials Advisory Notice for the % recycled content required.	Review the FAR categories. When making a purchase, check to see if recycled content is available. Use National Recommended Materials Advisory Notice for the % recycled content required.	

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➤ Green Janitorial Products and Practices Guide

National Park Service Pacific West Region Green Janitorial Products & Practices							
PRODUCT GUIDE							
CATEGORY	PRODUCT NAME	VENDOR STOCK #	GSA STOCK #	UNIT	PRICE	VENDOR	USER/REFERENCE
AIR FRESHENER	Air Scent			Case		Ultra-Solv, Inc.	FOVA
	Orange scent			12 EA	\$37.80	(203) 778-0881	
	Natural Air Freshener	AIOR712		4x1		Clean Environment Co	Yellowstone NP
BATHROOM & TOILET CLEANERS	biodegradable	N-4		Gallon	\$115.10	(402) 464-0888	Don Eby
	Basin, Tub & Tile			4x1		Clean Environment Co	Green Seal, JP4**
	all bathroom surfaces			Gallon		(402) 464-0888	YELL, Jim Eversoff
	biodegradable	N-7		Case	\$50.16	Don Eby	(307) 344-2311
	Basin, Tub and Tile Cleaner			4x1		Naturally Yours	JP4**, YOSE, YELL
	non-toxic	NY4		Gallon	\$18.00	(417) 889-3995	City of Santa Monica
	Bath and Tile Cleaner			Case	per Gal	Liz Kane	
	biodegradable			4x1		Ecotink/The Leaf	JP4**
				Gallon		Project Products	
	Clinging Toilet Bowl Cleaner	1101-1		Case	\$35.80	Hellie Rust	
	biodegradable			12x1		Clean Environment Co	JP4**
		N-8		Quart		(402) 464-0888	MORA, CHIS
	Clinging Toilet Bowl Cleaner			Case	\$51.16	Don Eby	JOTR, PRES
	biodegradable			4x1		Naturally Yours	JP4**, YOSE, YELL
	non-toxic	NY7		Gallon	\$21.00	(417) 889-3995	City of Santa Monica
	Enviro-Care Washroom and Fixture Cleaner			Case	per Gal	Liz Kane	
	biodegradable, non-hazardous	12002027		4x1	\$13.39	Rochester Midland	JP4**, Green Seal
	Super Orange Cleaner			Gallon		(716) 336-2308	Cape Cod NS, (see greenerparks website)
	hard surfaces, floors, walls			5		Clean Environment Co	Yellowstone NP
	concentrated	N-46		Gallon		(402) 464-0888	Don Eby
	biodegradable			Pail	\$52.92		Jim Eversoff

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ISWAPS: Integrated Solid Waste Management Plans

- Waste generation and diversion.
- Partnering.
- Infrastructure.

Remember to Recycle and Buy Recycled!



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*Green Voice
Sustainability News
Greenline*

EDUCATION!



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➤ Remember!

- Best Value - not lowest cost!
- Technology constantly improving.
- Reduce material use first.
- THEN buy recycled and EPP.
- Prioritize - where can you make biggest impact? *energy*



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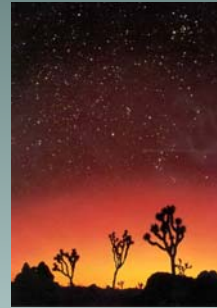


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Environmental Purchasing

- New ideas - changing old behaviors.
- Integrated into everyone's job.
- Setting an example.
- Sharing information and tools.
- Keeping our environment in mind.



*"I can't understand why people are frightened by new ideas.
I'm frightened of old ones."* John Cage

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Where are you?

*"When you try to change any single
thing, you find it hitched to
everything else in the universe."*

John Muir

National Park Service

Greening the Parks

Experience Your America

Thank You

Sonya Capek
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206-220-4271

The End



EXPERIENCE
YOUR
AMERICA